

48V15A EV ON-BOARD CHARGER
60V15A EV ON-BOARD CHARGER



Salient Features

- Earth leakage protection as per AIS 156 Phase-II
- Inbuilt CAN communication as per AIS 156 Phase-I
- Designed to meet adverse Indian power condition.
- Two stage (CC-CV Mode) charging profile suitable for Li-ion & LFP batteries
- Zero voltage start up facility
- Wide input operating range 150V-275V
- High efficiency charger with PFC
- CAN enable function
- Battery reverse polarity protection.
- Overload and short circuit protection.
- Ingress protection IP65

In-built PFC & CAN

SPECIFICATIONS

AC Input

| | | | |
|---------------------------------|-----------------|----------------------------|---------------|
| AC Input AC Input Voltage-range | : 150 - 275 VAC | AC Input Voltage - nominal | : 230 VAC rms |
| AC Input Frequency | : 47 - 53 Hz AC | Input Current - maximum | : <8A rms |
| Power Factor | : >0.95 | Harmonics | : ≤10% |
| Inrush current | : <40A | | |

DC Output

| | 48V15A EV ON-BOARD Charger | 60V15A EV ON-BOARD Charger |
|--|-----------------------------------|-----------------------------------|
| Maximum DC Output Voltage (Voltage Can be settable as per customer requirement) | : 58.4V ± 0.2V DC | : 67.2V ± 0.2V DC |
| Output Current | : 15A ± 0.5A DC | : 15A ± 0.5A DC |
| Efficiency | : ≥ 90% | : ≥ 90% |
| Output Line & Load Regulation | : Tolerance 2% at cable end | : Tolerance 2% at cable end |
| DC Ripple / Noise | : <600mV / <1200mV Pk-Pk | : <600mV / <1200mV Pk-Pk |

Protections

| | |
|---|--------------------------|
| Input Under Voltage | : Available |
| Input Over Voltage | : Available |
| Output over load | : Available |
| Output short circuit | : Available |
| Output over voltage | : Available |
| Output under voltage | : Available |
| Over temperature with auto recovery | : Available |
| Battery reverse | : Available |
| Safety timer | : Available |
| Zero start-up (Battery wake-up) or Deep discharge battery wake-up | : Available |
| Earth leakage detection | : As per IS12640 class-I |

Communication:

| | |
|-------------------|------------------------|
| CAN Communication | : CAN 2.0A and CAN2.0B |
|-------------------|------------------------|

Environmental

| | |
|-----------------------|----------------|
| Operating Temperature | : 0°C to +50°C |
| Humidity | : 95RH ± 5 % |

Mechanical

| | |
|---------------------|---|
| Enclosure | : Aluminium |
| Dimensions | : W= 220mm, H= 149mm D= 300mm |
| Weight | : 3Kg (Tentative) |
| AC input connector | : 1.5-meter length with 3core, 3pin AC plug |
| DC output connector | : Chogori (or) as per customer requirement |

Operation

| | |
|------------------------|---|
| Charging Status ON LED | : BI-Colour LED (Red colour for charging and Green for full Charge) |
| Fault LED | : RED LED |

